WPIL

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AN - 2002-680077 [73]

TI - Device for controlling **queue** for communication between tasks and method thereof

DC - W01

PA - (HYNI-) HYNIX SEMICONDUCTOR INC

IN - KIM YS

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NOVELTY - A device for controlling a **queue** for a communication between tasks and a method thereof are provided to enhance the performance of a system and manage a **queue** effectively by managing registrations of many **queues** being recognized in a main CPU board and an error message being asked in a general operating system in one place and transmitting a message to the final destination of each **queue** rapidly.

DETAILED DESCRIPTION - A task(100) performs a command inputted in an operator managing program. A processor(110) controls a program. A **queue** manager(120) supplies a message **queue** registration, a query function, and a transmission function. A **queue** thread(130) transmits/receives messages being transmitted and received to a remote place board to an IPC drive. A **queue table**(140) is used for storing and routing information of a **queue** being used in a system. A software block manufactures one's **queue** and requests a message **queue** registration to the **queue table**(140) through the **queue** manager(120). When the message is transmitted to other block, a query is processed for selecting a message **queue** for a transmission, and the **queue table**(140) is checked, and an ID of a destination **queue** is searched. A registered **queue** is designated as a block ID and an **interface** ID and used by attaching to a header in a message transmission. The **queue** thread(130) transmits a message transmission request to an IPC drive. The IPC drive transmits a message transmission request signal being transmitted from the **queue** thread(130) to the destination **queue**. In case that a responded block is in other unit, a message routing is performed. At this time, a mapping of the **queue table**(140) is performed by referring to a header of an IPC message. The destination **queue** reports a message result to the **queue** thread(130) again.(Dwg.1/10)

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